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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,304	08/19/2005	Farid Al-Bender	ALBE3001/JEK	5674
23364 BACON & TH	7590 10/04/2007 OMAS, PLLC		EXAMINER	
625 SLATERS LANE			GRANT, ALVIN J	
FOURTH FLO ALEXANDRIA	•		ART UNIT	PAPER NUMBER
			3723	•
			MAIL DATE	DELIVERY MODE
			10/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Application No. Applicant(s) AL-BENDER ET AL. 10/516.304 Office Action Summary Examiner **Art Unit** Alvin J. Grant 3723 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). **Status** 1) Responsive to communication(s) filed on 19 May 2005. 2a) This action is **FINAL**. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4) Claim(s) 32-63 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 32-63 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ⊠ All b) □ Some * c) □ None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 4) Interview Summary (PTO-413) 1) Notice of References Cited (PTO-892) Paper No(s)/Mail Date. __ Notice of Draftsperson's Patent Drawing Review (PTO-948) 2) [5) Notice of Informal Patent Application Information Disclosure Statement(s) (PTO/SB/08) Other: Paper No(s)/Mail Date

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DETAILED ACTION

Claim Objections

1. Claim 59 is objected to because of the following informality:

In line 4, change "between to two bearings" to read, "between the two bearings".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 32-35, 43-49 and 58-60 are rejected under 35 U.S.C. 102(b) as being anticipated by Ikeda et al. 5,795,139.

Ikeda et al. discloses an apparatus comprising: a rotating tool that is monolithic with a shaft and a fluid film bearing system wherein the fluid film bearing system comprises two thrust bearings at both coaxial surfaces of the blade and further comprising two journal bearings positioned at the shaft (col. 8, lines 56-64); designed for balanced high-speed rotation; the rotating tool is a disc; the rotating tool is a rotor; that during rotation better process stability is achieved than with conventional machinery; during rotation better precision and process reliability is achieved than with conventional machinery; the apparatus is driven by an electric motor; the apparatus is driven by a turbine; and the bearings combine both bearing and motor function (col. 10, line 9-col. 11, line 15).

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 36-42, 50-57 and 61-63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ikeda et al.

Ikeda et al. is described above. Referring to claims 36 and 37. Ikeda et al. does not specifically disclose the rotating tool being a drum or a cutter. The type of rotating tool is a matter of design choice. The elements that facilitate the functional aspects of the tool are present therefore it would have been obvious to one of ordinary skill in the art to substitute a drum or cutter element as a matter of choice.

Referring to claims 38-42, 56, 57 and 61-63, Ikeda et al. does not specifically disclose the rotating tool containing magnets, an illumination source, a sensor, a high-speed cutting tool or a high-speed imaging tool. The Examiner takes Official Notice that rotating tool containing magnets, an illumination source, a sensor, a high-speed cutting tool or a high-speed imaging tool are notoriously old in the art; and to incorporate such features are a matter of engineering expedient.

Referring to claims 50-55, Ikeda et al. does not specifically disclose rotational speed of the apparatus. Determining the rotational speed is dependent on the intended use of the tool; and these speeds may be obtained through experimentation.

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Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alvin J. Grant whose telephone number is (571) 272-4484. The examiner can normally be reached on Mon-Fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph J. Hail can be reached on (571) 272-4485. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alvin J Grant Patent Examiner
Art Unit 3723